SPECIFICATION FOR APPROVAL	
CUSTOMER :	h
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MODEL NO.: <u>AD0812XB-A73GP</u> P.S. (11) DESCRIPTION: 	
ISSUE DATE: 2021.10.04 常研發處	? ¥
REVISION: A00 2021.10.04 THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY. 發行章 UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY	7
KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.	
ADDA CORPORATION	

Revised Record							
Rev.	Revision Description	Change page	Date				
A00	Preliminary		2021.10.04				
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	警研發處 引						
	2021.10.04						
	發行童						

<u>DATA-SHEET</u>

Engineering

BRUSHLESS AXIAL COOLING FANS

Customer	:	Ref: (RoHS)
Adda Model No	: AD0812XB-A73GP P.S: (11)	
Samples attached	: Piece(s),	
Safety Approval	: UL,CUL,TUV,CE TUV:EN 62368-1 2014+A11	
	UL:UL507 CE:EN 61000-6-1:2007	
	EN 61000-6-3:2007+A1	
Specifications		
ITEM	SPECIFICATION / CONDITION	
BEARING TYPE	: TWO BALL	
RATED VOLTAGE	: 12.0 VDC	
OPERATING VOLTAGE RANGE	: 10.8 VDC - 13.2 VDC	
START-UP VOLTAGE	: 7.0 VDC ,NORMAL	
RATED CURRENT	: 0.55 Amp + 10 %MAX	
	(Approximately REAL CURRENT 0.40 Amp)	
RATED POWER	: 6.60 Watt + 10 %MAX	
	(Approximately REAL POWER 4.80 Watt)	
RATED SPEED	: 4500 RPM ± 10 %	
	(IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	: 61.417 CFM (min.: 55.275 CFM)	
AIR FLOW	: 1.738 CMM (min.: 1.564 CMM)	
	(IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	: 0.317 Inch H_2O (min.: 0.256 Inch H_2O)	
STATIC AIR PRESSURE	: 8.051 mm H_2O (min.: 6.521 mm H_2O)	
	(IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	: 47.0 dB (A) (max.: 51.0 dB(A))	
MOTOR PROTECTION	: BY IC	
POLARITY PROTECTION	: YES	
LIFE EXPECTANCY	: 70000 Hours at 40° C / 65% RH	
NET WEIGHT	: 95 Gram. (REF.)	
PACKING	200 pcs. Per Export Carton.	
	业股份	t t
Unless otherwise stated, the relative h	imidity is 65%, and the temperature is 25° C	
for the standard testing.	^診 研發	屍 🕑
Should you have any doubt, please ref	er to the environmental conditions specified in the 2021.1	0.04
acknowledgement document.		<u></u> 主
Real Current and Real Power are for re	yference 资行	早
ADDA CORPORATION	Model No.: AD0812XB-A73GP P.S: (11)	Page 1/6

SPECIFICATION

1 · 0 SCOPE

- 1.1 If the information or other related document is inconsistent with this acknowledgement document, please refer to the acknowledge document.
- 1.2 This documentation defines the mechanical & electrical characteristics of DC brushless fans.
- 1.3 The specification of this product is described in details in the acknowledgement document. No guarantee is given to our product under the use of over specifications.
- 1.4 For any change or amendment to the specifications, such change will be noticed in writing beforehand.
- 1.5 If the product is used on the MIS system, please specify the specification in the purchase order.

2 · 0 MATERIAL

- 2 · 1 Frame : UL94V-0 Glass Filled polyester (P.B.T)
- 2 · 2 Fan Blade : UL94V-0 Glass Filled polyester (P.B.T)
- $2 \cdot 3$ RoHS : (V) YES
 - HF : () YES

3 · 0 DIMENSIONS & CONSTRUCTION

All dimensions, Direction of rotation and air flow were specified as per drawing attached.

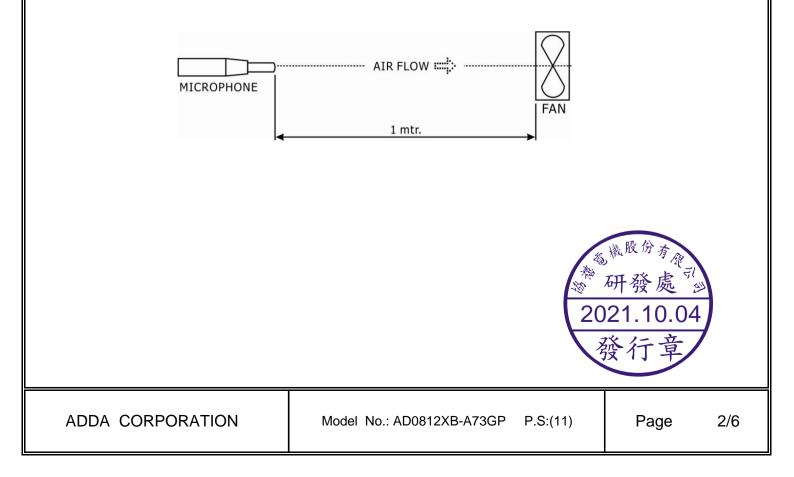
4 · 0 CHARACTERISTICS & DEFINITION

4 · 1 Rated Current/Rated Speed/Rated Power :

All shall be measured after 3 minutes of continuous rotation at rated voltage in free air.

- $4\cdot 2$ Start Voltage : The voltage which is able to start the fan to operate by suddenly switching 'ON'.
- 4 · 3 Locked Rotor Current : Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in free air.
- 4 · 4 Air Flow & Static Pressure : The air flow data and static pressures should be determined in accordance with AMCA-210 standard in a doublechamber testing with intake-side measurement.
- 4 · 5 Noise Level : The measurement of noise level is carried out with reference ISO7779 in a semi-anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air .

NOISE LEVEL MEASUREMENT



SPECIFICATION

5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Counterclockwise when look into impeller side.

5.2 Protection

All fans have integrated protection against locked rotor condition so that there will be no damage to winding or any electronic component.

Restarting is automatic as soon as any constraint to rotation has been released.

As fan placed at dead angle position, and the switch was changed from off to on. Restarting was automatic normal as soon as and proved that this fan is good fan.

- 5.3 Locked Rotor Protection No damage shall be found after 72 hours continuously at condition of rotation locked.
- Restarting is automatic as soon as constraint to running has been released. 5.4 Avoid the damage, check the correct voltage and proper polarity before connecting with power.
- 5.5 Free Drop Shock

In minimum package condition, the fan should withstand drops on any three faces from a height of 30cm onto a wood board of 10mm thick.

- 5.6 Please do not stick a grease and/or an oil to the fan housing or blade which may have a harmful influence by a chemical reaction at high humidity.
- 5.7 If the fan is reinstalled, please pay special attention to the noise due to the vibration (or resonance).
- 5.8 During the testing of the fan, please make sure the finger guard is used for safety.

6.0 ELECTRICAL INSPECTION

6.1 Insulation Resistance

Not less than 10M ohm between housing and positive end of lead wire (red) at 500V DC.

6.2 Dielectric Strength

No damage should be found at 500 VAC for 60 seconds, measured with 1mA trip current between housing and positive end of lead wire.

6.3 Life Expectancy

The continous duty life at given temperature after which, 90% of testing units shall still be running.

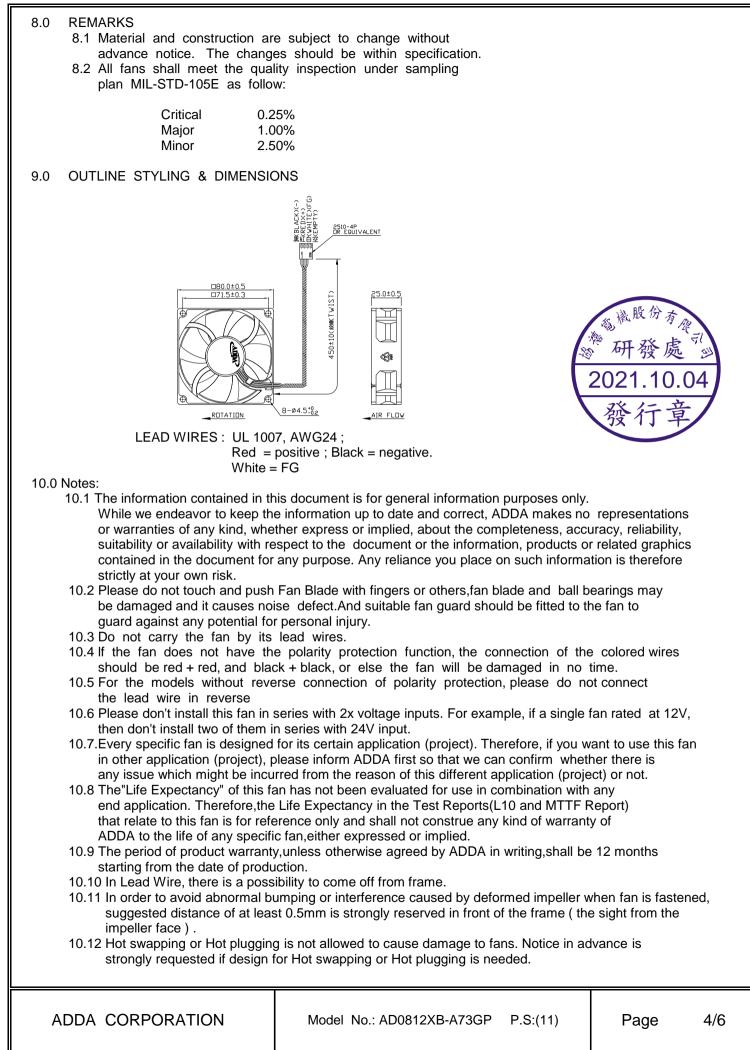
- 6.4 While the fan is running, do not intentionally lock the fan for a long time since the overheating of the motor produced by the long-time locking will damage the fan.
- 7.0 ENVIRONMENTAL
 - 7.1 Improper use such as disassembling the fan, being covered with dust, or dipping the fan in water that results in defects is not covered in the warranty. Do not use the fan in the environment with corrosive air or liquid. ADDA does not warrant damage to the product caused by outside elements (as dust, condensation, humidity or insects).
 - 7.2 Operating Temperature:-10 $^\circ\!\!\mathbb{C}$ to +70 $^\circ\!\!\mathbb{C}$.
 - 7.3 Operating Humidity:65%+/-20% RH.
 - 7.4 Storage Temperature: -40° C to $+70^{\circ}$ C.
 - 7.5 Storage Humidity:65%+/-20% RH.
 - 7.6 Do not place or store the fan in the environment with high/low temperature/humidity. If the fan is stored for more than 6 months, functional test is highly recommended before using.



ADDA CORPORATION

Model No.: AD0812XB-A73GP P.S:(11)

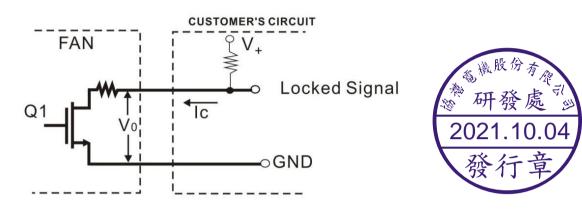
SPECIFICATION



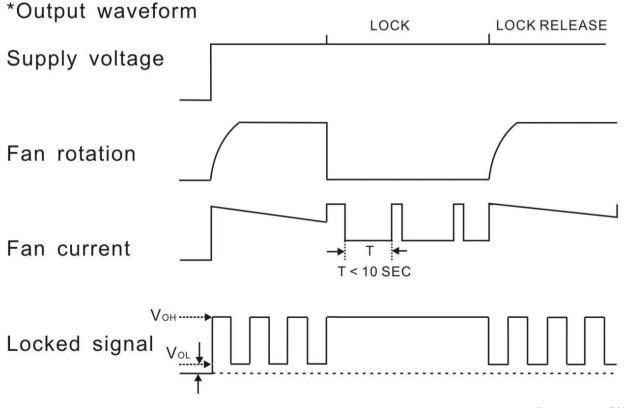


Output of locked signal *Output type.....Open Drain type *Electrical design suggestion:

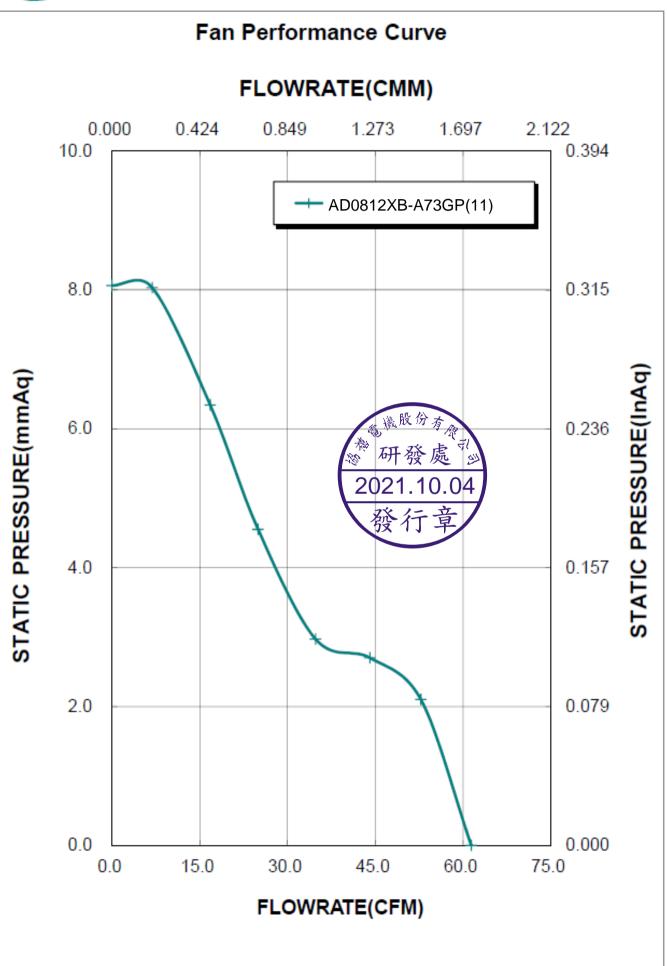
(External signal function design is decided by customer)



*Mosfet Q1 at "ON" position (FG Signal) (at Ta=25 c) ° FG Supply Voltage.....V₊(MAX)=Fan Supply Voltge Release Voltage.....V_{OH}=3.5V~Fan Supply Voltge Saturation Voltage.....V_{OL}=1V Max Drain current.....I_c=5mA Max

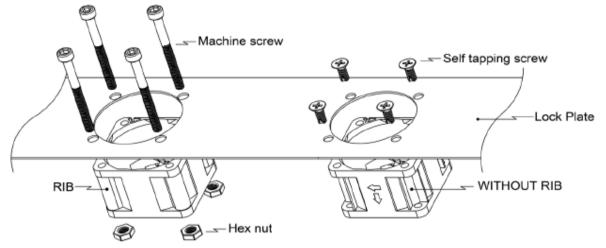






外框運用說明 (Frame Type Recommended)

- *標準框建議使用自攻螺絲,RIB框建議使用機械螺絲。
- We recommend to use self-tapping screw for the standard frame and machine screw for the RIB frame.





CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date E132139 E132139-20060824 2020-APRIL-18

Issued to:

ADDA CORP NO 6 E SECTION INDUSTRY 6 RD PING TUNG 900 TAIWAN

This certificate confirms that representative samples of



COMPONENT - FANS, ELECTRIC Refer adendum page for models

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety:

Additional Information:

See the UL Online Certifications Directory at <u>https://ig.ulprospector.com</u> for additional information.

CSA C22.2 No. 113-M1984 - Fans and Ventilators

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

UL 507 - Electric Fans

Look for the UL Recognized Component Mark on the product.

Service Mahrenholz, Director North American Certification Program UL LLC Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee contact a local UL Customer Service Representative at http://licenseaboutulfocations/



Page 1 of 2

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date E132139 E132139-20060824 2020-APRIL-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Component – DC Fans Models AD0812VB-A7(V)GP AD0812XB-A7(V)GP AD0812UB-A7(V)GP AD0812HB-A7(V)GP AD0812H(Y)-A7(Z)GL AD0812M(Y)-A7(Z)GL Note: Above (V) may be 1 or 3; (Y) may be B, S or X; (Z) may be 9 or B.



Bamples

(UL)

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on Program

Zertifikat	Certificate		Ä
ertifikat Nr. <i>Certificate No.</i> 50068602	Blatt Page 0034		ΤÜV
nr Zeichen Client Reference 2042190	Unser Zeichen Our Rej ZTW2-HCY- 1100		(day/mahir)
enchmigungsinhaber License dda Corporation , East Section, Ind ingtung City 900 aiwan, R.O.C.	A dustry 6 Road 6 P	ertigungsstätte <i>Manufacturing P</i> dda Corporation , East Section, Indu ingtung City 900 aiwan, R.O.C.	
TÜY TÜY Rheinland Product Safety	Geprüft nach Tested a EN 60950-1:20	ucc. to 01+A11	
Zertifiziertes Produkt (Gerät Certified Product (Produ Ventilator (DC Fan)	ect Identification)		enzentgelte - Einheit ense Fee - Unit
Wie Blatt (As Page) 01 Ergänzung (Addition)		致门早	
Bezeichnung (Type Designation) Z steht für	: a) AD0812ZB-A7Z2(b) AD0812ZZ1-A7Z : V, X, U, H oder	2GL	1 1 1
(stands for) Z1 steht für (stands for)	: B, S oder (or) X		1
Z2 steht für (stands for) Nennspannung	: 1, 3, 9 oder (or) в	1
(Rated Voltage) Nennstrom (Rated Current) Max. Umgebungstemperat (Max. Ambient Temperat	: siehe Anlage (see Appendix) ur : 70°C	Produce de la company	
		HI Rheinland	5
ANLAGE (Appendix): Dem Zertifikat liegt unsere Prüf- und Z Das Produkt entspricht den o.g. Anford Inis certificate is based on our Testing ulfills above-mentioned-requirements, ib	Tentifizierungsordnung zugrunde. ierungen, die Herstellung wird überwa and Certification Regulation. The pro	aduct Zertifizieru	ingsstelle
	y GmbH, Am Grauen Stein,		
TOV Rheimanu Product Salet	9/221)8 06 - 39 35 e-mail: Althofff@	de tux com	2 .

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